

WHAT IS CLAIMED IS:

1. An information recording medium in which different kinds of recording information are recorded together with reproducing procedure information indicating reproducing procedures to reproduce each of the recording information respectively,

wherein at least one integrated reproducing procedure information indicating a reproducing procedure to sequentially reproduce two or more recording information is recorded.

2. The information recording medium according to claim 1, wherein the integrated reproducing procedure information includes at least indicative information indicating the reproducing procedure information that correspond to the different kinds of recording information to be sequentially reproduced.

3. The information reproducing medium according to claim 1, wherein each of the reproducing procedure information is reproducing procedure information to reproduce each of the recording information in accordance with a procedure that differs from a recording procedure when each of the recording information is recorded in the information recording medium.

4. The information reproducing medium according to claim 2, wherein each of the reproducing procedure information is reproducing procedure information to reproduce each of the recording information in

accordance with a procedure that differs from a recording procedure when each of the recording information is recorded in the information recording medium.

5     5.     The information recording medium according to claim 1, wherein each of the recording information is any one of video information, audio information and data information.

10     6.     The information recording medium according to claim 1, wherein the information recording medium is a DVD.

15     7.     An information recording apparatus for recording integrated reproducing procedure information indicating a reproducing procedure to sequentially reproduce two or more recording information in an information recording medium in which different kinds of the recording information are recorded together with reproducing procedure information indicating reproducing procedures to reproduce each of the recording information respectively, the information recording apparatus comprising:

20             a selecting device for selecting the reproducing procedure information to be employed for generating the integrated reproducing procedure information;

              a generating device for generating the integrated reproducing procedure information by employing the selected reproducing procedure information; and

25             a recording device for recording the generated integrated

reproducing procedure information in the information recording medium.

8. The information recording apparatus according to claim 7,  
5 further comprising:

a procedure information generating device for newly generating  
required reproducing procedure information when the reproducing  
procedure information to be employed for generating the integrated  
reproducing procedure information does not exist in the information  
10 recording medium,

wherein the generating device generates the integrated  
generating procedure information by employing the selected generating  
procedure information and the newly generated reproducing procedure  
information.

15 9. The information recording apparatus according to claim 7,  
wherein each of the recording information is any one of video  
information, audio information and data information.

20 10. The information recording apparatus according to claim 7,  
wherein the information recording medium is a DVD.

11. An information recording method for recording integrated  
reproducing procedure information indicating a reproducing procedure  
25 to sequentially reproduce two or more recording information in an  
information recording medium in which different kinds of the recording

information are recorded together with each of reproducing procedure information indicating reproducing procedures to reproduce each of the recording information respectively, the information recording method comprising of the processes of:

- 5            selecting the reproducing procedure information to be employed for generating the integrated reproducing procedure information;  
             generating the integrated reproducing procedure information by employing the selected reproducing procedure information; and  
             recording the generated integrated reproducing procedure  
10 information in the information recording medium.

12.    The information recording method according to claim 11, further comprising the process of:

- newly generating required reproducing procedure information  
15 when the reproducing procedure information to be employed for generating the integrated reproducing procedure information does not exist in the information recording medium,

- wherein the process of generating the integrated reproducing procedure information generates the integrated reproducing procedure  
20 information by employing the selected reproducing procedure information and the newly generated reproducing procedure information.

13.    An information recording medium in which an information  
25 recording control program is readably recorded by a computer included in an information recording apparatus for recording integrated

reproducing procedure information indicating a reproducing procedure to sequentially reproduce two or more recording information in an information recording medium in which different kinds of the recording information are recorded together with reproducing procedure information indicating reproducing procedures to reproduce each of the recording information respectively, the information recording control program causing the computer to function as:

a selection device for selecting the reproducing procedure information to be employed for generating the integrated reproducing procedure information;

a generating device for generating the integrated reproducing procedure information by employing the selected reproducing procedure information; and

a recording device for recording the generated integrated reproducing procedure information in the information recording medium.

14. The information recording medium according to claim 13, wherein the information recording control program is readably recorded by the computer, the information recording control program causing the computer to further function as:

a procedure information generating device for newly generating required reproducing procedure information when the reproducing procedure information to be employed for generating the integrated reproducing procedure information does not exist in the information recording medium,

and the information recording control program causing the computer to function as the generating device for generating the integrated reproducing procedure information by employing the selected reproducing procedure information and the newly generated reproducing procedure information.

15. An information reproducing apparatus for reproducing recording information from an information recording medium in which different kinds of the recording information are recorded together with reproducing procedure information indicating reproducing procedures to reproduce each of the recording information respectively, and integrated reproducing procedure information indicating a reproducing procedure to sequentially reproduce two or more recording information is recorded, the information reproducing apparatus comprising:

a selecting device for selecting any one of the integrated reproducing procedure information;

an acquiring device for acquiring reproduction control information that corresponds to the reproducing procedure indicated by the selected integrated reproducing procedure information; and

a reproduction device for reproducing each of the recording information in accordance with the reproducing procedure indicated by the acquired reproducing procedure information.

16. The information reproducing apparatus according to claim 15, wherein the integrated reproducing procedure information includes at least indicative information indicating the reproducing procedure

information that correspond to the different kinds of recording information to be sequentially reproduced.

17. The information reproducing apparatus according to claim 15,  
5 wherein each of the reproducing procedure information is reproducing procedure information to reproduce each of the recording information in accordance with a procedure that differs from a recording procedure when each of the recording information is recorded in the information recording medium.

18. The information reproducing apparatus according to claim 16,  
10 wherein each of the reproducing procedure information is reproducing procedure information to reproduce each of the recording information in accordance with a procedure that differs from a recording procedure when each of the recording information is recorded in the information recording medium.

19. The information reproducing apparatus according to claim 15,  
20 wherein each of the recording information is any one of video information, audio information and data information.

20. The information reproducing apparatus according to claim 15,  
wherein the information recording medium is a DVD.

21. An information reproducing method for reproducing recording information from an information recording medium in which different

kinds of the recording information are recorded together with reproducing procedure information indicating reproducing procedures to reproduce each of the recording information respectively, and integrated reproducing procedure information indicating a reproducing  
5 procedure to sequentially reproduce two or more recording information is recorded, the information reproducing method comprising the processes of:

selecting any one of the integrated reproducing procedure information;

10 acquiring reproduction control information that corresponds to the reproducing procedure indicated by the selected integrated reproducing procedure information; and

reproducing each of the recording information in accordance with the reproducing procedure indicated by the acquired reproducing  
15 procedure information.

22. The information reproducing method according to claim 21, wherein the integrated reproducing procedure information includes at least indicative information indicating the reproducing procedure  
20 information that correspond to the different kinds of recording information to be sequentially reproduced.

23. An information recording medium in which an information reproducing control program is readably recorded by a computer  
25 included in an information reproducing apparatus for reproducing recording information from an information recording medium in which



different kinds of the recording information are recorded together with reproducing procedure information indicating reproducing procedures to reproduce each of the recording information respectively, and integrated reproducing procedure information indicating a reproducing  
5 procedure to sequentially reproducing two or more recording information is recorded, the information reproducing control program causing the computer to function as:

a selecting device for selecting any one of the integrated reproducing procedure information;

10 an acquiring device for acquiring reproduction control information that corresponds to the reproducing procedure indicated by the selected integrated reproducing procedure information; and

a reproduction device for reproducing each of the recording information in accordance with reproducing procedure indicated by the  
15 acquired reproducing procedure information.

24. The information reproducing method according to claim 23, wherein the integrated reproducing procedure information includes at least indicative information indicating the reproducing procedure  
20 information that correspond to the different kinds of recording information to be sequentially reproduced.

25 A computer data signal embodied in a carrier wave and representing a series of instructions which cause a computer to perform steps to execute a recording process in an information recording apparatus for recording integrated reproducing procedure information

indicating a reproducing procedure to sequentially reproduce two or more recording information in an information recording medium in which different kinds of the recording information are recorded together with reproducing procedure information indicating reproducing  
5 procedures to reproduce each of the recording information respectively, the steps comprising:

a selecting step for selecting the reproducing procedure information to be employed for generating the integrated reproducing procedure information;

10 a generating step for generating the integrated reproducing procedure information by employing the selected reproducing procedure information; and

a recording step for recording the generated integrated reproducing procedure information in the information recording  
15 medium.

26 The computer data signal according to claim 25, wherein the a series of instructions which cause a computer to perform steps to execute a recording process in the information recording apparatus  
20 according to claim 25, the steps further comprising:

a procedure information generating step for newly generating required reproducing procedure information when the reproducing procedure information to be employed for generating the integrated reproducing procedure information does not exist in the information  
25 recording medium,

wherein the generating step generates the integrated

reproducing procedure information by employing the selected reproducing procedure information and the newly generated reproducing procedure information.

5 27. A computer data signal embodied in a carrier wave and representing a series of instructions which cause a computer to perform steps to execute a reproducing process in an information reproducing apparatus for reproducing recording information from an information recording medium in which different kinds of the recording information  
10 are recorded together with reproducing procedure information indicating reproducing procedures to reproduce each of the recording information respectively, and integrated reproducing procedure information indicating a reproducing procedure to sequentially reproducing two or more recording information is recorded, the steps  
15 comprising:

a selecting step for selecting any one of the integrated reproducing procedure information;

an acquiring step for acquiring reproduction control information that corresponds to the reproducing procedure indicated by the selected  
20 integrated reproducing procedure information; and

a reproduction step for reproducing each of the recording information in accordance with reproducing procedure indicated by the acquired reproducing procedure information.

25 28. The computer data signal according to claim 27, wherein the a series of instructions which cause a computer to perform steps to

execute a reproducing process in the information reproducing apparatus according to claim 27, wherein the integrated reproducing procedure information includes at least indicative information indicating the reproducing procedure information that correspond to  
5 the different kinds of recording information to be sequentially reproduced.